### **Digital Multimeter**

GDM-8200A Series

#### **QUICK USER GUIDE**

GW INSTEK PART NO. 82DM-8255AMA1





#### July 2011

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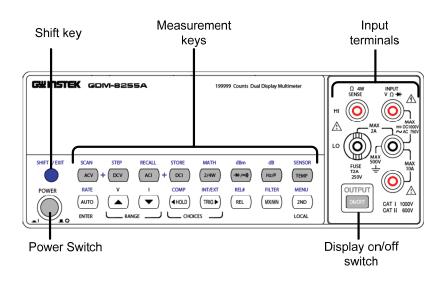
### NTRODUCTION

The GDM-8200A series quick start guide is intended for users who are not familiar with the instrument and need a tutorial for quickly accessing its major functionalities. For more details such as parameters, remote control commands, optional scanner, digital I/O, and specifications, refer to the user manual.

This manual consists of the following chapters. Power up the instrument according to the "Powering up" chapter, and then pick up the relevant chapter according to your needs.

- · Powering up
- Basic (measurement)
  - Voltage/Current
  - Resistance
  - Diode/Continuity/Frequency/Period/Temperature
- Advanced (measurement)
  - dBm/dB/Max/Min/Relative/Dual display
  - Measurement combinations

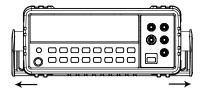
### Front panel overview



## POWERING UP

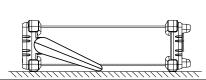
1. Tilt stand

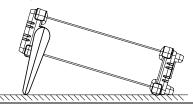
Pull out the handle sideways and rotate it.



Horizontal position

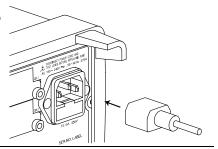
Tilt position





2. Connect the power cord

Connect the power cord to the AC Voltage input.



3. Press the power Push the main power switch on the front panel to turn the instrument on.



The display contents appear and you are ready to make measurements.

DC AUTO

.348 15.



Powering up the instrument is completed

# BASIC MEASUREMENT

#### Voltage/Current

Measurement item: DCV, ACV, (DC+AC)V, DCI, ACI, (DC+AC)I

1. Connect the test leads

Voltage
measurement

VOltage

MA

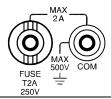
□ DC10

AC 7.

Current measurement (>2A)

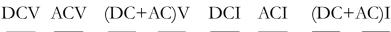


Current measurement (≤2A)

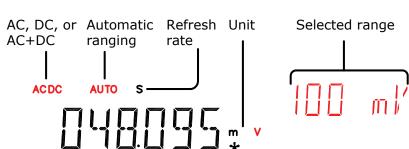


2. Press the measurement key

Press the measurement keys on the front panel (For (DC+AC)V or (DC+AC)I, press both keys together). The measurement result will appear on the display.

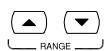






Manual ranging

To select the measurement range manually, press the Up/Down keys.

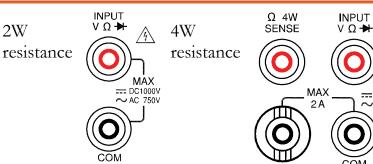


For further details, see the Voltage or Current section, Basic Measurement chapter in the user manual

#### Resistance

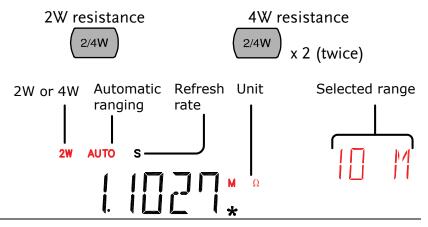
Measurement item: 2W resistance, 4W resistance

1. Connect the test leads



2. Press the measurement key

Press the measurement keys on the front panel. The measurement result will appear on the display.



Manual ranging

To select the measurement range manually, press the Up/Down keys.



For further details, see the Resistance section, Basic Measurement chapter in the user manual

### Diode/Continuity/Hz/Period/Temp

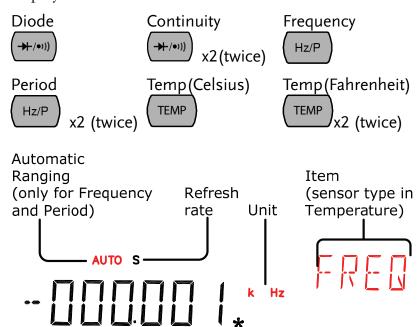
Measurement item: Diode test, Continuity test, Frequency, Period, Temperature

- 1. Connect the test leads
- All items share the same terminal.
- Diode/Continuity
- Frequency/Period
- Temperature



2. Press the measurement key

Press the measurement keys on the front panel (For Continuity, Period, and Fahrenheit temp, press the same key twice). The measurement result will appear on the display.



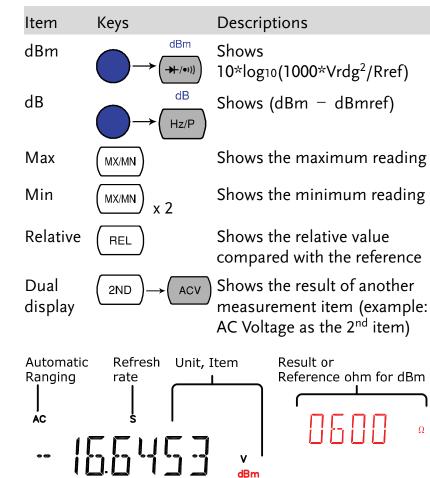
For further details, see the Diode/Continuity/Frequency/Period/Temperature section, Basic Measurement chapter in the user manual

### ADVANCED MEASUREMENT

Measurement item: dBm, dB, Max, Min, Relative, Dual display

- 1. Make a basic measurement
- Follow the procedures in the Basic measurement chapter, page6. For measurement combinations (basic + advanced, dual display), see page10.
- Press the measurement key

Press the measurement keys on the front panel. The measurement result will appear on the display.



For further details including other measurement items (Hold, Compare, and Math), see the Advanced Measurement chapter in the user manual.

#### Measurement Combinations

#### Basic + Advanced measurement combinations

Advanced Measurement		Basic Measurement				
	AC/DCV	AC/DCI	2/4W	Hz/P	TEMP	<b>→</b>  -/•1))
dB	•		_	_	_	_
dBm	•		_			
Max/Min	•	•	•	•	•	_
Relative	•	•	•	•	•	
Hold (*)	•	•	•	•	•	
Compare (*)	•	•	•	•	•	_
Math (*)	•	•	•	•	•	
Dual Display	•	•	•	•	_	_

<sup>(\*):</sup> For Hold, Compare and Math function details, see the Advanced Measurement chapter in the user manual.

#### Dual display combinations

Combinations	Any of the following items can be combined together for dual display measurements (for example ACV + Hz, DCV + DCI)		
	<ul><li>ACV</li><li>DCV</li></ul>	• DCI • Hz/P	
	• ACI		
Note	Selecting other functions (such as 2W resistance) is possible but may not be useful, and their accuracies are not guaranteed.		